

Express Mail No. EL 998649035 US

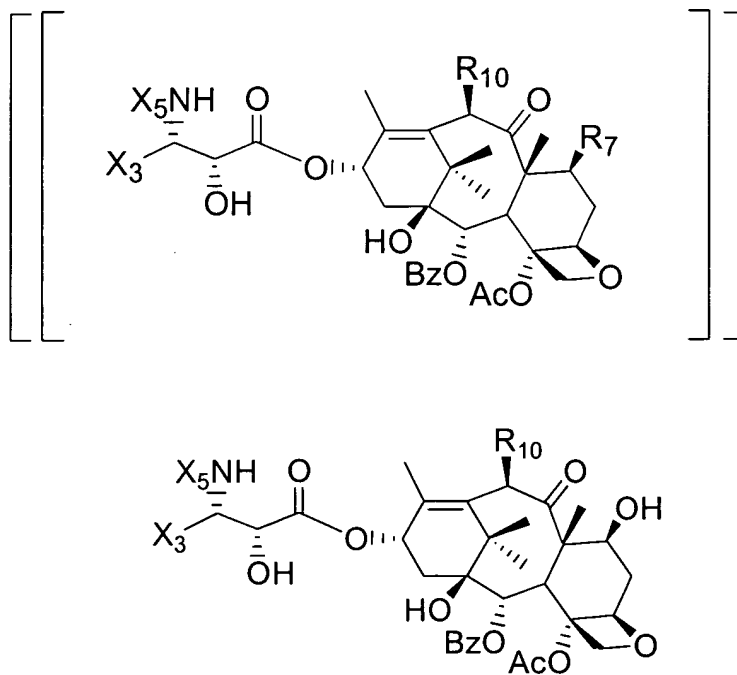
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

Claims 1-91 (Canceled)

Claim 92 (Currently amended): A taxane having the formula:



R₇ is hydroxy;

5 R₁₀ is carbamoyloxy R_{10a}NHCOO- wherein R_{10a} is hydrocarbyl, substituted hydrocarbyl or heterocyclo;

X₃ is ~~substituted or unsubstituted alkyl, alkenyl, alkynyl, or heterocyclo, wherein alkyl comprises at least two carbon atoms;~~

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X_5 is $-\text{COX}_{10}$, $-\text{COOX}_{10}$, or $-\text{CONHX}_{10}$;

X_{10} is hydrocarbyl, substituted hydrocarbyl, or heterocyclo,

Ac is acetyl, and

Bz is benzoyl.

Claims 93-164 (Canceled)

Claim 165 (New): The taxane of claim 92 wherein X_3 is furyl, thienyl, pyridyl, oxazolyl, pyrrolyl, indolyl, quinoliny, or isoquinoliny.

Claim 166 (New): The taxane of claim 92 wherein X_3 is oxazolyl, pyrrolyl, indolyl, quinoliny, isoquinoliny, thiazolyl or isoxazolyl.

Claim 167 (New): The taxane of claim 165 wherein X_3 is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl.

Claim 168 (New): The taxane of any of claims 165-167 wherein X_5 is $-\text{COX}_{10}$ and X_{10} is substituted or unsubstituted phenyl, $\text{C}_1 - \text{C}_8$ alkyl, or $\text{C}_2 - \text{C}_8$ alkenyl, or X_5 is $-\text{COOX}_{10}$ and X_{10} is substituted or unsubstituted $\text{C}_1 - \text{C}_8$ alkyl or $\text{C}_2 - \text{C}_8$ alkenyl.

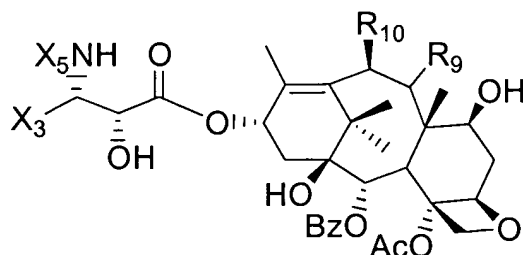
Claim 169 (New): The taxane of claim 168 wherein X_5 is $-\text{COOX}_{10}$ and X_{10} is substituted or unsubstituted methyl, ethyl, or straight, branched or cyclic propyl, butyl, pentyl, or hexyl.

Claim 170 (New): The taxane of claim 168 wherein R_{10a} is methyl, ethyl, or straight, branched or cyclic propyl, butyl, pentyl, or hexyl.

Claim 171 (New): The taxane of claim 168 wherein R_{10a} is substituted or unsubstituted phenyl.

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Claim 172 (New): A taxane having the formula:



R_9 is hydroxy or acyloxy;

R_{10} is $R_{10a}R_{10b}NCOO-$ and R_{10a} and R_{10b} are independently hydrogen, hydrocarbonyl, substituted hydrocarbonyl, or heterocyclo;

X_3 is substituted or unsubstituted alkyl, alkenyl, or alkynyl, or heterocyclo, wherein alkyl comprises at least two carbon atoms;

X_5 is $-COX_{10}$, $-COOX_{10}$, or $-CONHX_{10}$;

X_{10} is hydrocarbonyl, substituted hydrocarbonyl, or heterocyclo,

Ac is acetyl, and

Bz is benzoyl.

Claim 173 (New): The taxane of claim 172 wherein X_3 is furyl, thienyl, pyridyl, oxazolyl, pyrrolyl, indolyl, quinolynyl, or isoquinolynyl.

Claim 174 (New): The taxane of claim 172 wherein X_3 is oxazolyl, pyrrolyl, indolyl, quinolynyl, isoquinolynyl, thiazolyl or isoxazolyl.

Claim 175 (New): The taxane of claim 173 wherein X_3 is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl.

Claim 176 (New): The taxane of any of claims 173-175 wherein X_5 is $-COX_{10}$ and X_{10} is substituted or unsubstituted phenyl, $C_1 - C_8$ alkyl, or $C_2 - C_8$ alkenyl, or X_5 is $-COOX_{10}$ and X_{10} is substituted or unsubstituted $C_1 - C_8$ alkyl or $C_2 - C_8$ alkenyl.

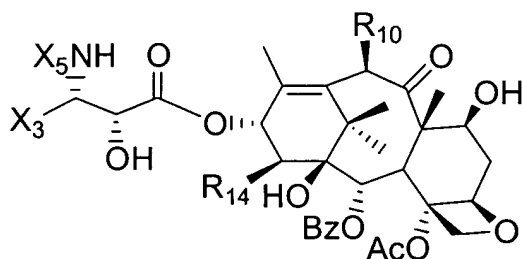
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Claim 177 (New): The taxane of claim 176 wherein X_5 is $-\text{COOX}_{10}$ and X_{10} is substituted or unsubstituted methyl, ethyl, or straight, branched or cyclic propyl, butyl, pentyl, or hexyl.

Claim 178 (New): The taxane of claim 176 wherein R_{10a} is methyl, ethyl, or straight, branched or cyclic propyl, butyl, pentyl, or hexyl.

Claim 179 (New): The taxane of claim 176 wherein R_{10a} is substituted or unsubstituted phenyl.

Claim 180 (New): A taxane having the formula:



R_{10} is $R_{10a}R_{10b}\text{NCOO}-$ and R_{10a} and R_{10b} are independently hydrogen, hydrocarbyl, substituted hydrocarbyl, or heterocyclo;

R_{14} is hydroxy;

X_3 is substituted or unsubstituted alkyl, alkenyl, or alkynyl, or heterocyclo, wherein alkyl comprises at least two carbon atoms;

X_5 is $-\text{COX}_{10}$, $-\text{COOX}_{10}$, or $-\text{CONHX}_{10}$;

X_{10} is hydrocarbyl, substituted hydrocarbyl, or heterocyclo,

Ac is acetyl, and

Bz is benzoyl.

Claim 181 (New): The taxane of claim 180 wherein X_3 is furyl, thienyl, pyridyl, oxazolyl, pyrrolyl, indolyl, quinoliny, or isoquinoliny.

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Claim 182 (New): The taxane of claim 180 wherein X_3 is oxazolyl, pyrrolyl, indolyl, quinolinyl, isoquinolinyl, thiazolyl or isoxazolyl.

Claim 183 (New): The taxane of claim 181 wherein X_3 is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl.

Claim 184 (New): The taxane of any of claims 181-183 wherein X_5 is $-\text{COX}_{10}$ and X_{10} is substituted or unsubstituted phenyl, $\text{C}_1 - \text{C}_8$ alkyl, or $\text{C}_2 - \text{C}_8$ alkenyl, or X_5 is $-\text{COOX}_{10}$ and X_{10} is substituted or unsubstituted $\text{C}_1 - \text{C}_8$ alkyl or $\text{C}_2 - \text{C}_8$ alkenyl.

Claim 185 (New): The taxane of claim 184 wherein X_5 is $-\text{COOX}_{10}$ and X_{10} is substituted or unsubstituted methyl, ethyl, or straight, branched or cyclic propyl, butyl, pentyl, or hexyl.

Claim 186 (New): The taxane of claim 184 wherein R_{10a} is methyl, ethyl, or straight, branched or cyclic propyl, butyl, pentyl, or hexyl.

Claim 187 (New): The taxane of claim 184 wherein R_{10a} is substituted or unsubstituted phenyl.

Claim 188 (New): A pharmaceutical composition comprising the taxane of any of claims 92, 172 or 180 and at least one pharmaceutically acceptable carrier.

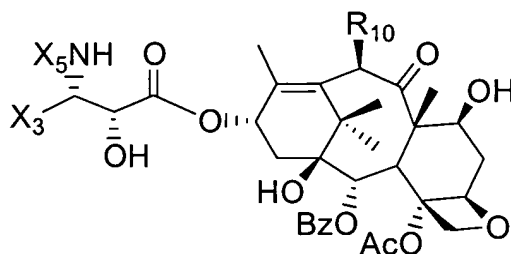
Claim 189 (New): The composition of claim 188 wherein the composition is administered orally.

Claim 190 (New): The composition of claim 188 wherein the composition is administered parenterally.

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Claim 191 (New): A method of inhibiting tumor growth in a mammal, said method comprising orally administering a therapeutically effective amount of a pharmaceutical composition comprising the taxane of any of claims 92, 172, or 180 and at least one pharmaceutically acceptable carrier.

Claim 192 (New): A taxane having the formula:



wherein

R_{10} is $R_{10a}R_{10b}NCOO^-$;

one of R_{10a} and R_{10b} is ethyl and the other is hydrogen;

X_3 is isopropyl, cyclopropyl, cyclobutyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl, 4-pyridyl or p-nitrophenyl;

X_5 is $-COOX_{10}$ and X_{10} is t-butyl; and

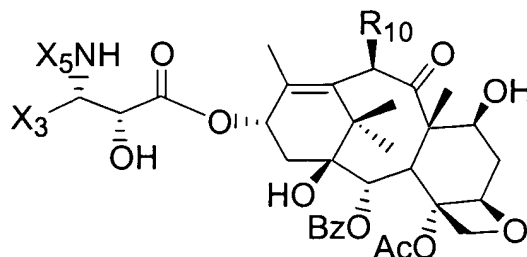
Ac is acetyl.

Claim 193 (New): The taxane of claim 192 wherein X_3 is 2-furyl, 3-furyl, 2-thienyl or 3-thienyl.

Claim 194 (New): The taxane of claim 192 wherein X_3 is 2-furyl or 2-thienyl.

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Claim 195 (New): The taxane having the formula:



5 wherein

R_{10} is $R_{10a}R_{10b}NCOO-$;

one of R_{10a} and R_{10b} is ethyl, phenyl or 3,4-difluorophenyl and the other is hydrogen;

X_3 is 2-furyl;

10 X_5 is $-COX_{10}$ and X_{10} is trans-propenyl; and

Ac is acetyl.